

Climatological Data for July, 1910.
DISTRICT No. 9, COLORADO VALLEY,
FREDERICK H. BRANDENBURG, District Editor.

GENERAL SUMMARY.

A continuation of the hot, dry weather and clear skies that characterized May and June obtained until nearly the middle of the month, broken only by light scattered showers. With a change in the general distribution of pressure cloudless skies were less persistent, and the long looked for seasonal thundershowers set in, with here and there heavy downpours. At Bisbee, Ariz., 4.25 inches fell on the 22d, causing washouts; while at Bloomfield, N. Mex., 1 inch fell on the 27th in 30 minutes. As a result of the protracted drought the ranges throughout the district remained in an unsatisfactory condition. A marked improvement quickly followed the rains in Arizona, and in a less degree in more northerly districts. A decided shortage of water for irrigation was experienced in the southern counties of Arizona until the 15th. Similar conditions prevailed in the southwestern parts of New Mexico and Colorado.

TEMPERATURE.

The mean of the 131 stations reporting was 75.4° , or 0.3° above the normal. An excess was general, except in southwestern New Mexico and southern Arizona, and in a few localities in the valleys of the Green and Grand rivers. By subdivisions the means and departures were: Western Wyoming, 64.4° , $+3.4^{\circ}$; western Colorado, 65.0° , $+0.4^{\circ}$; eastern Utah, 74.2° , $+1.9^{\circ}$; western New Mexico, 74.3° , $+0.7^{\circ}$; southeastern Nevada, 82.7° ; Arizona, 83.2° , -0.3° . The highest monthly mean was 97.2° at Mohawk Summit, Ariz., and the lowest, 50.3° at Corona, Colo.

In the northern part of the district daily mean temperatures were slightly below the normal during the first 15 days; then followed high mean temperatures, almost to the close of the month. In the southern part of the district the changes were more frequent but not important.

For the subdivisions included in District No. 9, the extremes observed were: Wyoming, 98° and 31° ; Colorado, 102° and 27° ; Utah, 110° and 34° ; New Mexico, 106° and 34° ; Nevada, 114° and 40° ; and Arizona, 123° and 36° .

PRECIPITATION.

The average precipitation for the 177 stations reporting was 1.70 inch, or 0.18 inch above the normal. In Wyoming and Nevada practically none occurred prior to the 15th, and the amounts noted during the rest of the month were small. In Colorado beneficial showers fell on the 3d and 4th; showers were general after the 12th, especially from the 27th to the close of the month. In Utah showers also occurred on the 3d and 4th; they were general on the 14th and 15th. From the 26th to the close of the month the precipitation was heavier and of benefit. Prior to the 12th or 13th only light and scattered precipitation occurred in New Mexico and Arizona. A moderately wet period ended on the 16th or 17th; and from the 21st or 22d rain fell almost daily. By watersheds the means and departures were: Green, 1.14 , $+0.09$; Grand, 1.32 , $+0.03$; San Juan, 2.06 , $+0.21$; Little Colorado, 2.36 , $+0.77$; Gila, 2.14 , $+0.24$; Mimbres, 1.25 , -1.00 ; Colorado, proper, 1.03 , $+0.42$ inch. The greatest monthly amount was 5.72 inches at Bisbee, Ariz., and the least, a trace, at Mohawk Summit, Ariz., and Hite, Utah. The average number of days with 0.01 inch or more of precipitation was seven.

RIVERS.

The volume discharged by the Grand and the Green rivers was small as compared with that of the corresponding month last year. In the Grand River gage heights averaged 3 feet

lower, and in the Green River 4 feet lower than last July. In the Colorado, proper, the average gage height was 11.4 feet lower at Grand Canyon, Ariz., and 7.4 feet lower at Yuma, Ariz., than a year ago.

MISCELLANEOUS.

The percentage of sunshine was close to the normal. Grand Junction reported 83, Flagstaff 69, Phoenix 84, and Yuma 91 per cent of the possible.

The mean monthly relative humidity ranged from 36 per cent at Grand Junction to 60 per cent at Flagstaff.

PUMPS AND ELECTRIC POWER, GILA INDIAN RESERVATION, ARIZ.

When the pumping station now being installed at wells already constructed on the Gila Indian Reservation, and within a short distance of Mesa, are completed, 15,000 acres of irrigated land will have been added to the agricultural area of the Salt River Valley, without a drop of water from the Roosevelt Dam.

This announcement was made by Louis C. Hill, Supervising Engineer, United States Reclamation Service, Phoenix, Ariz., after his return from an inspection of the Gila River wells, near Sacaton.

The irrigation engineers were forced to go to a depth of 60 feet for water in almost every one of the nine wells at Sacaton and the six wells located from 7 to 9 miles south of Mesa.

With the 60-foot shafts constructed to get the pumps at water level, and all other work, including the digging of the wells, machinery, and power line construction, they will cost \$10,000 each. This is a considerable amount to pay for a well, but when it is realized that each well irrigates 1,000 acres of land, the question of cost vanishes. It costs much more than that to irrigate the land under the Roosevelt Project.

The wells at Sacaton are all on the Gila River Indian Reservation, and were dug and constructed for the benefit of the Indians exclusively. They will result in much increased prosperity for these national wards, who are paying every dollar of the cost, without recourse to the white man, and they will maintain the wells in the future, although the Government will furnish them electric power from the Roosevelt Dam.

The same thing is true of the Mesa wells, save that these wells are for the benefit of the white farmers, and will be paid for and maintained by them.

This addition of 15,000 acres to the irrigated area of the Salt River Valley lands is a large item in the life of this valley, and one that is gained absolutely over and above the Roosevelt Project.

SCHOOLS OF FISH IN SALT RIVER POWER CANAL, ARIZONA.

An incident of more than ordinary interest occurred at Roosevelt on July 26. Quite heavy rains had fallen over the Apache Mountain Range, on the upper watershed of the Salt River, north of Globe, Ariz., on the 25th. The moderate runoff reached the Intake at Livingstone late on the 25th and at Roosevelt on the 26th. A part of this flood water was diverted into the power canal at Livingstone, which discharges into the penstock, for the turning of the large water wheels. The fish in the upper Salt River, retreating before the flood, sought the clear water of the power canal in unusually large numbers, so great in fact that many tons of them were driven down through the power canal for about 10 miles to the large screen at the head of the penstock, wedging it so full that the water was literally dammed up and the turbine wheels could not rotate. This necessitated the switching off of the power on the power transmission line running between Roosevelt and Phoenix, and

Phoenix, Mesa and Tempe were without power and light for fully an hour on the 26th.

A similar incident occurred at the Roosevelt Dam in August, 1909, but on that occasion there was only two or three tons of fish, which did not stop the water wheels. In the case of this year, there were a great many more fish. The screen at the penstock is a conical shaped device some 12 feet in diameter at the upstream end, and is 20 feet in height. Within it is a sort of trough above the surface of the canal water, sloping down grade to a point on the bank of the canal above the screen. A little pump supplies this trough with water, and the screen, revolving through its sides and lower end strains the water into the penstock, shooting the sticks and wood, leaves and débris into the trough, whence it is washed out. The device works excellently under ordinary conditions, and with a fair amount of running fish, but on the 26th the fish came down the canal in such large quantities that they choked the screen and shut off the water. The services of four men were required for one full hour to shovel the fish into the trough and float them out to the dump pile over the side of the bank. There they fell down the hillside along the pathway of the little rivulet supplied by the trough pump, into a larger ditch below, into which a large head of water was turned, and they were washed down into the reservoir. It is needless to say that the entire population of Roosevelt lived on fish for nearly one week thereafter.

In this connection, it may be pertinent to state that the Government Fish Commissioner intends to fully stock the Roosevelt Reservoir with a large variety of fish, for none of the fish came out of the Roosevelt Reservoir, but several miles above

it, from the upper Salt River. The fish in the reservoir can not get into the power canal, unless they jump or crawl 60 to 150 feet higher, which is not an impossibility among the eel family.

CHANGE IN CHIRICAHUA NATIONAL FOREST.

The President has signed a proclamation adding 30,560 acres to, and at the same time eliminating 57,297 acres from, the Chiricahua National Forest in Arizona and New Mexico. These changes are the result of a careful examination made by the Secretary of Agriculture, which showed that the areas excluded are not needed for forest or watershed protection.

The most important of these changes is the elimination from the forest reserve of a large area, consisting for the most part of grass land, on the southern and eastern boundaries of the New Mexico division which was formerly known as the Peloncillo National Forest. This will leave Sanders Pass and the surrounding territory on the southern slope of the Animas Range entirely outside of the forest lines. Smaller eliminations of nonforest lands are also made from the Chiricahua and Peloncillo divisions.

The additions comprise a number of areas of juniper and pinion scattered along the exterior boundaries of the Chiricahua, Peloncillo, and Dragoon divisions. The latter division, by the recent proclamation, has been transferred from the Coronado to the Chiricahua National Forest.

The unappropriated portions of the lands eliminated by this proclamation will be restored to settlement and entry after having been advertised in the local papers by the Secretary of the Interior.

TABLE 1.—Climatological data for July, 1910. District No. 9, Colorado Valley.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.				Precipitation, in inches.				Total snowfall unmeasured.	Number of rainy days, .10 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.								
<i>Wyoming.</i>																			
Battle Mountain.	Carbon.	7,300	11	59.4	+ 3.2	85	14 [†]	31	7 [†]	49	0.33	- 0.49	0.23	0.0	2	10	12	nw.	
Daniel.	Uinta.	6,740	2	65.2	- 2.0	91	18	34	6	51	0.82	- 0.53	0.0	0	6	10	16	w.	
Eden.	Sweetwater.	6,577	5	71.4	-	98	25	38	6 [†]	52	0.35	- 0.28	0.0	0	4	14	14	w.	
Green River.	Pinedale.	6,083	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rambler.	Fremont.	7,167	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Willow Creek Cabin.	Carbon.	9,232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Colorado.</i>	Freemont.	7,500	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ashcroft.	Pitkin.	9,483	8	57.2	-	83	19 [†]	32	1	46	1.88	-	0.61	0.0	11	-	-	-	
Bed Rock.	Montrose.	9,536	20	55.4 ^m	+ 2.0	82	26	30	3 [†]	47 ^m	-	-	0.0	0	12	12	7	c.	
Breckenridge.	Cascade.	9,900	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromo.	Archuleta.	7,500	4	63.1	-	93	19 [†]	30	2	55	1.92	-	1.03	0.0	7	8	21	sw.	
Cochetopa.	Saguache.	9,088	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Colbran.	Mesa.	8,000	17	69.8	-	91	19 [†]	47	1 [†]	38	0.71	-	0.43	0.30	0	5	19	11	w.
Columbine.	Routt.	8,766	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Columbine Ranch.	Delta.	6,925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Corona.	Grand.	11,650	3	50.3	-	65	24 [†]	30	9	25	1.10	-	0.76	0.0	2	15	16	s.	
Crawford (near).	Montrose.	6,600	71.1	-	-	91	20	49	5	33	0.27	-	0.10	0.0	5	15	16	w.	
Created Butte.	Gunnison.	8,867	56.6	-	-	83	19 [†]	29	5 [†]	51	1.56	-	0.80	0.0	6	13	27	w.	
De Beque.	Mesa.	4,935	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Delta.	Delta.	4,965	19	75.8	+ 1.6	101	18 [†]	47	5 [†]	50	0.18	-	0.68	0.07	4	15	14	c.	
Dillon.	Summit.	8,800	1	71.2	-	83	23	57	12	22	2.36	-	0.50	0.0	10	18	13	n.	
Dolores.	Montezuma.	6,500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Durango.	La Plata.	6,534	17	69.3	+ 0.4	94	19	44	2 [†]	43	0.95	-	0.63	0.48	0	12	3	27	nw.
Eagle.	Eagle.	6,598	5	63.6	-	91	15 [†]	35	3	50	1.55	-	0.67	0.0	7	19	11	w.	
Eureka.	San Juan.	10,000	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fraser.	Grand.	8,560	54.2	-	-	81	27	27	7 [†]	50	2.05	-	0.64	0.0	12	13	7	n.	
Fruita.	Mesa.	4,510	11	76.2	+ 1.0	102	20 [†]	49	8	50	1.45	-	0.66	0.67	0	3	16	14	sw.
Gladstone.	Garfield.	10,400	3	-	-	87	19 [†]	40	3 [†]	55	2.06	-	0.70	0.0	9	2	27	sw.	
Glenwood Springs (near).	Garfield.	5,833	12	67.8	-	98	28	49	3 [†]	55	2.28	-	1.28	0.95	0	6	25	0	w.
Grand Junction.	Mesa.	4,608	19	78.8	-	101	22	59	1	41	0.96	-	0.46	0.88	0	6	15	14	sw.
Grandlake.	Grand.	8,153	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Grand Valley.	Garfield.	5,039	18	74.2	+ 1.4	101	19	43	2	53	0.67	-	0.23	0.17	0	6	27	4	o.
Gunnison.	Garfield.	7,670	17	63.0	+ 2.0	90	19 [†]	30	3	54	1.00	-	0.20	0.57	0	6	16	14	sw.
Horseshoe.	Mesa.	8,700	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Ironton.	Oreay.	10,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Kremmling (near).	Grand.	7,337	1	63.1	-	93	28	37	2	49	1.84	-	0.45	0.0	12	12	7	sw.	
Lake City.	Hinsdale.	8,686	5	63.0	-	87	19	35	5	43	1.24	-	0.39	0.0	11	4	25	s.	
Lay.	Routt.	6,190	16	67.5	+ 0.8	96	19 [†]	32	6	56	0.97	-	0.69	0.40	0	5	18	5	sw.
Leal.	Grand.	8,750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lujane.	Montrose.	6,620	4	73.2	-	95	20	49	2	41	0.87	-	0.44	0.0	4	18	13	sw.	
Mancos.	Montezuma.	6,960	11	67.8	+ 1.6	92	19 [†]	40	1 [†]	45	2.39	-	1.18	0.78	0	8	26	2	c.
Marble.	Gunnison.	7,951	1	61.9	-	90	25 [†]	35	1 [†]	50	1.47	-	0.41	0.0	8	14	15	sw.	
Marshall Pass.	Saguache.	10,846	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Meeker.	Rio Blanco.	6,182	18	64.0	-	95	26	38	9 [†]	47 [†]	1.00	-	0.60	0.15	0	9	13	6	sw.
Montrose (near).	Montrose.	5,311	21	65.8	-	94	24 [†]	44	4	46	1.10	-	0.71	0.06	0	3	18	13	o.
Nast.	Pitkin.	7,953	50.7	-	-	84	24 [†]	38	1 [†]	44	1.72	-	0.74	0.0	6	17	14	w.	
Pagoda.	Routt.	6,500	19	64.3	+ 0.4	93	25	35	6 [†]	55	1.89	-	0.63	0.81	0	6	28	1	sw.
Pagosa Springs.	Archuleta.	7,108	3	64.4	-	95	19	32	1	54	2.47	-	0.46	0.0	14	3	27	sw.	
Paonia.	Delta.	5,694	15	73.1	+ 0.1	96	26	49	1 [†]	41	0.31	-	0.67	0.18	0	3	21	7	sw.
Parshall.	Grand.	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Pitkin.	Gunnison.	9,500	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rangely.	Rio Blanco.	5,050	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Redcliff.	Eagle.	8,695	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rico.	Dolores.	8,824	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rifle.	Garfield.	5,437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
River Portal.	Montrose.	6,570	4	71.6	-	97	18 [†]	43	4	46	1.11	-	0.65	0.0	3	11	11	9.	
Sapinero (near).	Gunnison.	8,125	8	61.0	-	86	20 [†]	33	2	44	1.21	-	0.45	0.0	8	18	10	w.	
Shoshone.	Garfield.	6,110	-	71.2	-	93	26	48	5	32	0.80	-	0.27	0.0	11	9	17	sw.	
Silverton (1).	San Juan.	9,335	6	57.7	-	84	19	29	2	47	2.05	-	0.39	0.0	14	10	21	sw.	
Silverton (near).	do.	9,410	3	55.6	-	78	20	28 [†]	2	44	2.36	-	0.61	0.0	14	3	21	sw.	
Spruce Lodge.	Grand.	9,600	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Steamboat Springs.	Routt.	6,633	7	61.6	-	92	25 [†]	29	24	61	1.23	-	0.29	0.0	6	28	2	n.	
Tacoma.	La Plata.	7,300	3	66.6	-	91	18	46	1 [†]	39	3.25	-	0.90	0.0	6	9	20	2	sw.
Terminal Dam.	Tacoma.	8,300	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Terrill's Ranch.	Mesa.	7,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unehomah Plateau.	Montrose.	8,400	10	59.2	-	80	26	32	3 [†]	42	1.51	-	0.28	0.0	9	9	20	2	s.
Whitepine.	Gunnison.	9,500	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Yampa (near).	Routt.	8,000	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Utah.</i>	San Juan.	7,580	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Baker.	Grand.	9,500	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Basin.	Emery.	5,500	11	71.9	+ 3.1	97	18 [†]	40	24	55	0.65	+ 0.07	0.30	0.0	5	20	11	0	-
Castle Dale.	Unita.	6,657	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Emery.	Emery.	6,260	10	67.8	+ 2.6	90	20 [†]	41	2	42	0.20	-	0.21	0.20	0	1	6	6	19.
Escalante.	Garfield.	5,700	10	70.0	+ 0.2	93	24	45	1	42	3.21	+ 0.23	1.25	0.0	8	13	0	18.	
Fort Duchesne.	Uinta.	5,000	22	73.3	+ 2.4	102	18	40	6	54	0.67	+ 0.18	0.30	0.0	5	13	6	12.	
Fruitland.	Wasatch.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Grayson.	San Juan.	5,750	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Green River.	Emery.	4,080	13</td																

TABLE 1.—Climatological data for July, 1910. District No. 9—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeasured.	Number of rainy days, .01 inch or more.	Number of partly cloudy days.	Number of cloudy days.		
<i>Utah—Cont'd.</i>																			
Tropic.	Garfield.	7,000	13	69.3	+ 2.1	96	21	30	5	43	1.04	+ 0.15	0.52	0.0	6	20	6	sw.	E. P. Bolton.
Trout Creek Ranger	Unita.	9,200	.....								3.05		0.85	0.0	12	7	15		Forest Supervisor.
Vernal	do.	5,050	15	71.0	- 0.7	98	25	43	6	48	1.12	+ 0.38	0.42	0.0	4	25	5	1	S. P. Trim.
<i>New Mexico.</i>																			
Alma.	Socorro.	5,500	14	77.8	+ 3.3	106	8	45	1	57	1.65	- 0.69	1.00	0.0	7	4	20	7	sw.
Aragon.	do.	5,856	3	66.0	.....	98	21	40	7	54	1.14	.....	0.35	0.0	8	7	22	2	sw.
Blackrock.	McKinley.	6,500	2	71.4	.....	95	20	44	3	45	2.58	.....	0.56	0.0	8	6	21	4	w.
Bloomfield.	San Juan.	5,500	15	76.9	+ 2.1	106	20	44	2	56	1.56	+ 0.76	1.00	0.0	6	31	0	se.	
Cambray.	Luna.	4,215	11	.....							0.79	- 0.47	0.64	0.0	3	23	3	e.	
Columbus.	do.	4,034	1	.....							0.54	.....	0.18	0.0	7	21	10	w.	
Deming.	do.	4,333	33	80.6	.....	105	7	64	11	11	0.96	- 0.06	0.70	0.0	5	14	12	w.	
Dulce.	Rio Arriba.	6,767	3	67.8	+ 2.7	95	16	34	2	54	2.03	- 0.54	0.79	0.0	15	7	22	2	sw.
Fort Bayard.	Grant.	6,152	35	72.6	- 0.1	94	24	48	11	43	1.45	- 0.55	0.35	0.0	7	18	13	0	c.
Fort Wingate.	McKinley.	6,997	46	69.5	- 2.3	92	20	48	2	40	2.40	+ 0.16	0.60	0.0	10	3	16	sw.	
Fruitland.	San Juan.	4,800	17	75.8	+ 0.8	101	18	43	2	53	0.90	+ 0.28	0.80	0.0	2	10	1	sw.	
Gaze.	Luna.	4,486	3	81.1	.....	104	24	59	11	44	0.68	- 1.02	0.26	0.0	3	13	18	0	e.
Gila (near).	Grant.	4,470	11	77.2	- 0.1	106	7	41	1	58	2.47	- 0.10	1.15	0.0	5				T. J. Clark, sr.
Gila Planting Station.	do.	6,475	.....								0.97	.....	0.45	0.0	4	11	20	0	nw.
Hachita.	do.	4,504	1	.....														El Paso & Southwest. R. R.	
Haynes.	Rio Arriba.	6,600	.....															Dr. John Roger Haynes.	
Hermanas.	Luna.	4,451	1	.....														El Paso & Southwest. R. R.	
Lordsburg.	Grant.	4,245	10	82.2	- 1.1	1.05	8	58	2	44	2.09	+ 0.35	0.56	0.0	6	21	4	sw.	
Luna.	Socorro.	7,300	5	66.7	.....	90	1†	38	2	51	1.70	.....	0.50	0.0	8	1	30	s.	
Mimbres.	Grant.	5,007	5	.....		102	4	.....			2.37	.....	0.67	0.0	8	14	17	se.	
Pratt.	do.	4,415	1	.....							3.79	.....	1.30	0.0	6	14	15	r.	
Putnam.	San Juan.	6,200	5	.....							1.07	.....	0.84	0.0	3	24	7	e.	
Redrock.	Grant.	4,150	.....								4.34	.....	0.98	0.0	8	5	26	0	Robert H. Woods.
Rodeo.	do.	4,118	1	.....							3.26	.....	0.90	0.0	10	19	12	0	El Paso & Southwest. R. R.
Rosa.	Rio Arriba.	6,000	5	.....														B. A. Candelario.	
<i>Arizona.</i>																			
Allaire Ranch.	Cochise.	4,184	14	.....							1.70	- 0.92	1.57	0.0	5	18	5	w.	
Arizona Canal Dam.	Maricopa.	1,372	17	89.6	- 0.4	112	7†	62	1	42	1.60	+ 0.37	0.82	0.0	4	5	20	s.	
Astec.	Yuma.	492	11	92.2	- 3.4	118	20	64	1†	53	0.31	- 0.16	0.20	0.0	4	29	4	w.	
Benson.	Cochise.	3,523	20	82.2	- 3.2	107	7	60	5	42	1.70	- 0.29	0.60	0.0	6	14	15	e.	
Bisbee.	do.	5,500	20	75.6	+ 0.1	95	7†	59	28	52	5.72	+ 2.06	4.25	0.0	8	16	15	e.	
Bonita.	Graham.	4,916	.....															A. Johnson & Co.	
Bowie.	Cochise.	3,766	34	83.6	+ 2.9	108	6†	58	1	43	1.30	- 1.59	0.65	0.0	7	7	18	6	sw.
Buckeye.	Maricopa.	930	19	89.9	+ 2.6	116	7	56	1	51	0.79	- 0.31	0.71	0.0	3	24	7	s.	
Camp Verde.	Yavapai.	3,160	.....								4.78	.....	1.15	0.0	10	0	23	8	se.
Canille.	Santa Cruz.	5,225	1	.....							1.25	+ 0.51	0.50	0.0	7	15	12	sw.	
Casa Grande.	Pinal.	1,398	29	93.6	+ 0.4	116	7†	60	2	52	2.22	.....	0.72	0.0	8	23	8	1	sw.
Cave Creek.	Maricopa.	1,520	3	87.4	.....	114	7†	53	2	55	1.96	.....	0.90	0.0	9	4	15	sw.	
Chin Lee.	Apache.	6,090	2	75.6	.....	100	20	44	7	50	2.17	.....	0.47	0.0	9	3	28	0	sw.
Chilsons Mill.	Graham.	8,000	3	.....							4.06	.....	2.15	0.0	7	2	20	2	e.
Clifton.	do.	3,584	20	88.7	.....	109	8	65	13†	34	2.22	+ 0.48	0.88	0.0	7	18	13	0	T. R. Gabbard.
Cline.	Gila.	2,300	11	86.4	.....	109	7†	55	1	50	1.05	- 0.55	0.73	0.0	2	19	4	sw.	
Cochise.	Cochise.	4,219	12	78.1	- 3.7	103	7†	54	16	38	2.61	+ 0.57	1.45	0.0	4	12	14	5	e.
Columbia.	Yavapai.	1,900	10	91.0	+ 3.0	112	7	74	1	32	1.05	.....	1.05	0.0	1	14	13	4	sw.
Congress.	do.	3,688	14	84.0	- 1.4	105	7†	63	18	35	5.22	+ 3.45	2.15	0.0	10	12	12	7	sw.
Courtland.	Cochise.	4,543	1	.....							2.17	.....	0.47	0.0	9	3	28	0	sw.
Dos Cabezos.	do.	5,250	2	77.9	.....	108	7	50	4	56	4.06	.....	2.15	0.0	7	2	20	2	e.
Douglas.	do.	3,930	7	81.2	.....	107	6	57	2	48	2.52	.....	0.97	0.0	12	9	20	2	sw.
Dudleyville.	Pinal.	2,204	.....															G. F. Cook.	
Fairbank.	Cochise.	3,862	1	.....							4.82	.....	2.60	0.0	9	9	3	19	El Paso & Southwest. R. R.
Flagstaff.	Coconino.	6,907	18	65.4	+ 0.4	91	20	36	1	46	3.07	+ 1.28	0.60	0.0	13	9	14	8	sw.
Florence.	do.	1,504	11	88.0	+ 1.8	115	20	62	2†	50	2.15	+ 0.64	1.40	0.0	3	10	8	13	w.
Fort Apache.	Navajo.	5,200	39	74.2	+ 0.1	98	7	46	1	48	2.07	- 0.84	0.60	0.0	8	12	15	4	sw.
Fort Huachuca.	Cochise.	5,100	25	75.8	- 1.3	103	2	50	23	44	3.40	- 0.23	1.20	0.0	6	12	7	7	sw.
Fort Mohave.	Mohave.	604	37	94.8	+ 0.1	117	14	65	9	41	0.18	- 0.05	0.12	0.0	2	14	16	1	sw.
Gilabend.	Maricopa.	737	20	93.6	- 0.8	119	5	67	17	49	0.43	- 0.27	0.13	0.0	4	23	6	2	s.
Globe.	Gila.	3,525	9	82.6	.....	107	7	59	1†	39	2.18	.....	1.22	0.0	7	10	21	0	sw.
Grand Canyon.	Coconino.	6,866	7	.....														Dr. B. G. Fox.	
Greer.	Apache.	9,200	6	.....							2.94	.....	0.50	0.0	15	6	6	19	s.
Hereford.	Cochise.	4,180	1	.....							3.82	.....	1.27	0.0	10	5	0	26	s.
Holbrook.	Navajo.	5,069	20	77.2	+ 1.5	104	8†	49	15	49	2.63	+ 1.03	0.48	0.0	10	21	3	7	sw.
Intake.	Gila.	2,230	5	.....							1.45	.....	0.60	0.0	4	12	14	5	sw.
Jerome.	Javapai.	4,743	12	80.4	+ 0.1	100	20†	62	14	29	1.62	- 0.58	0.42	0.0	6	10	19	2	s.
Keams Canyon.	Navajo.	6,600	7	71.7	.....	95	20	43	1	44	3.84	.....	0.93	0.0	13	3	28	0	sw.
Kingman.	Mohave.	3,828	9	82.2	.....	110	21	48	1	52	0.85	.....	0.32	0.0	4	13	16	2	sw.
Lewis Springs.	Cochise.	4,029	1	.....							2.47	.....	1.29	0.0	7	6	16	0	sw.
Maricopa.	Pinal.	1,186	33	86.6	- 2.1	109	6	60	13	45	0.88	- 0.16	0.63	0.0	2	12	17	2	sw.
Mesa.	Maricopa.	1,244	16	86.6	- 2.1	109	6	60	13	45	0.88	- 0.16	0.63	0.0	2	12	17	6	sw.
Mohawk Summit.	Yuma.	538	10	97.2	+ 0.0	123	7	80	25†	33	T	- 0.15	T	0.0	0	10	18	3	sw.
Naco.	Cochise.	4,579	1	.....							2.64	.....	0.77	0.0	8	12	19	0	w.
Natural Bridge.	Gila.	3,830	21	.....				</										

TABLE 1.—*Climatological data for July, 1910. District No. 9—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, yrs.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total rainfall unmeted.	Number of rainy days, .01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Arizona—Cont'd.</i>																				
Silverbell.	Pluma.	2,650	5	87.2		107	7	64	23	35	3.11		1.10	0.0	9	16	13	2	w. sw.	Imperial Copper Co. W. J. Flake.
Snowflake.	Navajo.	5,644	1	73.7		98	8	46	2	48	1.67		0.50	0.0	7	8	16	7		C. E. Coe.
Supai.	Cocoonino.	3,200																	F. H. Simmons.	
Tempe.	Maricopa.	1,165	6	88.6		113	20	60	1	44	0.67		0.84	0.0	4	15	12	4	w.	Prof. J. H. Larson.
Thatcher.	Graham.	2,800	7	81.8		109	7	53	2	50	0.82		0.40	0.0	5	14	14	3	se.	F. N. Walcott.
Tombstone.	Cochise.	4,550	16	77.8	- 0.6	90	7	54	30	33	4.91	+ 1.87	2.60	0.0	9	7	21	3		S. M. Atkinson.
Truxton.	Mohave.	4,197	1	79.6		104	21	50	1	45	1.02		0.38	0.0	5	12	18	1		G. H. Kraus.
Tuba.	Cocoonino.	4,500	11	76.8	- 1.2	100	19†	53	1	42	0.89	+ 0.34	0.44	0.0	4	25	2	ne.	University of Arizona.	
Tucson.	Pima.	2,390	31	85.8	- 1.2	110	7	61	2	47	4.21	+ 2.09	1.82	0.0	5	2	25	4	nw.	Southern Pacific Co.
Vail.	do.	3,421	12	86.0	+ 0.1	111	7	60	2	46	2.73	+ 1.90	1.22	0.0	5	8	21	2		J. O. Carter.
Walnut Grove.	Yavapai.	3,649	20								3.10	+ 1.40	1.67	0.0	7	12	16	3		Santa Fe, Pres't & Phoenix
Wickenburg.	Maricopa.	2,072	11	88.4	+ 2.7	112	7	64	1	43	1.06	+ 0.29	0.42	0.0	5	13	17	1	sw.	Southern Pacific Co.
Willcox.	Cochise.	4,184	30	77.6	- 4.5	107	7	60	1†	52	2.45	+ 0.50	0.92	0.0	6	7	21	3	sw.	E. J. Nordyke.
Williams.	Cocoonino.	6,750	11	69.8	+ 0.4	94	8	36	4	50	3.01	+ 0.32	1.40	0.0	7	6	23	2	sw.	J. F. Bauer.
Winslow.	Navajo.	4,853	7	79.6		106	8†	49	1	51	0.60		0.30	0.0	3	21	4	6		E. L. Bartholomew.
Yarnell.	Yavapai.	4,700	12								4.02	+ 1.42	1.56	0.0	9	6	24	1	s.	U. S. Weather Bureau.
Yuma.	Yuma.	141	31	91.0	+ 0.1	116	20	64	1	43	0.84	+ 0.71	0.82	0.0	3	27	2	1	sw.	Agent Salt Lake Route. Salt Lake Route. Ray. M. Filcher.
<i>Nerada.</i>																				
Caliente.	Lincoln.	4,407		75.4		104	9†	42	1	58	0.23		0.06	0.0	6	17	14	0	ne.	
Las Vegas.	Clark.	2,033	2	85.2		114	10	40	13	58	0.65		0.20	0.0	5					
	do.	1,700	3	87.6		114	21	55	4	50	0.11		0.05	0.0	3	6	14	11	s.	

*, †, ‡, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.

* Precipitation included in that of the next measurement.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

‡ Separate dates of falls not recorded.

§ Data are from standard instruments not supplied by the U. S. Weather Bureau.

|| Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.

||| Estimated by observer.

¶ Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for July, 1910. District No. 9, Colorado Valley.*

Stations.	River basins.	Day of month.																														Total.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Wyoming.																																		
Battle Mountain.	Snake.																																	
Daniel.	do																																	
Eden.	Green.																																	
Green River.	do																																	
Pinedale.	do																																	
Rambler.	Snake.																																	
Willow Creek Cabin.	Green.																																	
Colorado.																																		
Ashcroft.	Grand.																																	
Bed Rock.	Dolores.																																	
Breckenridge.	Grand.																																	
Cascade.	San Juan.																																	
Chromo.	do																																	
Cochetopa.	Gunnison.																																	
Collbran.	Grand.																																	
Columbine.	Yampa.																																	
Columbine Ranch.	Gunnison.																																	
Corona.	Grand.																																	
Crawford (near).	Gunnison.																																	
Created Butte.	do																																	
De Beque.	Grand.																																	
Delta.	Gunnison.																																	
Dillon.	Grand.																																	
Dolores.	Dolores.																																	
Durango.	San Juan.																																	
Eagle.	do																																	
Eureka.	Grand.																																	
Fraser.	Yampa.																																	
Fruita.	do																																	
Gladstone.	San Juan.																																	
Glenwood Springs (nr).	Grand.																																	
Grand Junction.	Gunnison.																																	
Grandlake.	do																																	
Grand Valley.	do																																	
Gunnison.	Gunnison.																																	
Horsefly.	do																																	
Ironton.	do																																	
Kremmling (near).	Grand.																																	
Lake City.	Gunnison.																																	
Lay.	Yampa.																																	
Leal.	do																																	
Lujane.	Grand.																																	
Mancos.	Gunnison.																																	
Marble.	do																																	
Marshall Pass.	Gunnison.																																	
Moeker.	White.																																	
Montrose (near).	Gunnison.																																	
Nast.	Grand.																																	
Pagoda.	Yampa.																																	
Pagosa Springs.	do																																	
Paonia.	Gunnison.																																	
Parshall.	Grand.																																	
Pitkin.	Gunnison.																																	
Rangely.	White.																																	
Redcliff.	Grand.																																	
Rico.	Dolores.																																	
Rifle.	do																																	
River Portal.	Gunnison.																																	
Sapinero (near).	do																																	
Shoahone.	do																																	
Silvertown (near).	do																																	
Silverton.	do																																	
Spruce Lodge.	do																																	
Tacoma.	Yampa.																																	
Terminal Dam.	do																																	
Terrill's Ranch.	do																																	
Uncompahgre Plateau.	Gunnison.																																	
Whitepine.	do			</td																														

TABLE 2.—*Daily precipitation for July, 1910. District No. 9—Continued.*

Stations.	River basins.	Day of month.																														Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31			
<i>New Mexico—Cont'd.</i>																																			
Bloomfield.	San Juan.	T.	.01	T.							T.	T.	T.	.02	T.	.05		T.	T.	T.	T.	T.	.14	T.	T.	1.00	T.	T.	.34				1.56		
Cambray.	Mimbres.										T.	.11	.01	.07																			.79		
Columbus.	Gila.										T.																								.54
Deming.	Mimbres.	.01	T.							T.	.04	.06	.20	.16	.03	T.																	.96		
Dulce.	San Juan.									T.	.10	.20	.25	T.																			.45		
Fort Bayard.	Mimbres.									T.																									2.03
Fort Wingate.	Little Colorado.									T.																									2.40
Fruitland.	San Juan.									T.																									.90
Gaze.	Mimbres.									T.																									.68
Gila.	Gila.									T.	.05																								2.47
Gila Planting Station.	Mimbres.									T.																									
Hachita.	Gila.									T.																									
Haynes.	San Juan.									T.																									
Hermanas.	Gila.									T.																									
Lordsburg.	do.									T.																									
Luna.	do.									T.																									
Mimbres.	Mimbres.									T.																									
Pratt.	Gila.									T.																									
Putnam.	San Juan.									T.																									
Redrock.	Gila.									T.																									
Rodeo.	do.									T.																									
Ross.	San Juan.									T.																									
Allaire Ranch.	Sonora.									T.																									
Arizona Canal Dam.	Salt.									T.																									
Aztec.	Gila.									T.																									
Benson.	San Pedro.	.10	T.							T.																									
Bisbee.	do.									T.																									
Bonita.	Mimbres.									T.																									
Bowie.	Gila.									T.																									
Buckeye.	do.									T.																									
Camp Verde.	Verde.									T.																									
Canille.	San Pedro.	T.	.03							T.																									
Casa Grande.	Gila.									T.																									
Cave Creek.	Verde.									T.																									
Chin Lee.	San Juan.	T.								T.																									
Chiarsons Mill.	Gila.									T.																									
Clifton.	do.									T.																									
Cline.	Salt.									T.																									
Cochise.	Desert.									T.																									
Columbia.	Agua Fria.									T.																									
Congress.	Hassayampa.	T.								T.																									
Courtland.	White.	.02								T.																									
Dos Cabezos.	Desert.									T.																									
Douglas.	Sonora.	.06	T.							T.																									
Dudleyville.	Gila.									T.																									
Fairbank.	San Pedro.	T.	.03							T.																									
Flagstaff.	Little Colorado.	T.								T.																									
Florence.	Gila.									T.																									
Fort Apache.	Verde.									T.																									
Fort Huachuca.	Salt.									T.																									
Fort Mohave.	San Pedro.	T.								T.																									
Gilabend.	Gila.									T.																									
Globe.	Salt.									T.																									
Grand Canyon.	Colorado.	T.								T.																									
Greer.	Little Colorado.	T.								T.																									
Hereford.	Gila.	.03								T.																									
Holbrook.	Little Colorado.									T.																									
Intake.	Salt.									T.																									
Jerome.	Verde.									T.																									
Kearns Canyon.	Little Colorado.	.01								T.																									
Kingman.	Colorado.	.18								T.																									
Lewis Springs.	San Pedro.									T.																									
Maricopa.	Gila.									T.																									
Mesa.	Salt.									T.																									
Mohawk Summit.	Gila.																																		

MONTHLY WEATHER REVIEW.

JULY, 1910

TABLE 2.—*Daily precipitation for July, 1910. District No. 9—Continued.*

TABLE 3.—*Maximum and minimum temperatures at selected stations, July, 1910. District No. 9, Colorado Valley.*

Date.	Wyoming.			Colorado.												Utah.												New Mexico.														
	Daniel.			Green River.			Durango.			Grand Junction.			Gunnison.			Meeker.			Steamboat Springs.			Emery.			Fort Duchesne.			Hite.			Mab.			St. George (Experiment station).			Fort Bayard.			Fort Wingate.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.						
1.	80	33	89	42	83	45	88	59	80	35	81	39	81	34	82	42	92	46	95	61	93	51	103	57	90	53	84	54														
2.	81	32	90	49	87	44	94	62	82	33	85	49	85	33	83	41	95	46	101	62	98	52	99	61	94	55	87	48														
3.	80	32	90	53	85	46	90	67	84	30	85	49	84	30	78	35	93	45	92	68	92	51	98	64	94	55	88	50														
4.	72	47	75	54	82	51	80	61	86	34	75	42	75	34	69	51	85	45	87	66	90	60	94	64	94	51	82	63														
5.	70	33	79	44	81	48	88	50	88	37	75	42	75	34	78	56	90	50	96	61	93	51	99	50	93	50	80	51														
6.	74	32	86	38	86	46	90	61	86	39	79	35	80	31	79	59	93	40	99	66	97	61	102	50	94	60	87	51														
7.	76	31	89	41	88	48	92	59	84	40	83	49	83	31	86	45	96	45	104	67	98	53	106	50	92	63	88	54														
8.	76	33	90	38	99	48	95	62	81	35	84	40	85	31	89	59	97	46	105	68	101	52	107	53	90	61	88	53														
9.	73	41	85	50	86	49	94	63	84	40	82	38	89	33	85	51	94	46	104	73	99	69	105	59	81	61	86	63														
10.	76	38	88	50	87	48	94	65	82	36	84	38	82	36	82	52	96	47	102	72	100	63	94	58	88	59	86	59														
11.	80	35	88	55	87	48	90	62	79	42	80	49	83	34	89	46	99	59	106	75	97	63	106	67	80	48	86	52														
12.	76	36	89	53	89	48	92	61	82	41	84	46	85	35	82	51	91	46	103	71	98	58	108	62	86	52	87	54														
13.	81	41	93	53	85	52	96	61	83	42	83	49	84	39	85	58	97	48	103	78	101	64	102	77	85	53	76	54														
14.	85	37	95	51	85	51	91	66	86	39	82	46	90	39	89	51	98	47	97	77	96	61	106	69	85	55	78	59														
15.	78	55	88	60	88	53	92	69	84	38	86	50	86	44	82	56	96	62	99	77	95	63	93	66	85	55	81	52														
16.	85	47	93	50	89	55	95	64	87	40	85	51	87	53	83	49	98	57	96	71	103	64	101	68	83	57	88	55														
17.	80	45	94	61	90	53	98	67	85	42	87	56	86	46	82	49	97	59	105	71	103	61	104	67	89	61	88	58														
18.	83	46	96	54	88	56	99	72	87	40	89	49	88	42	85	56	102	54	102	74	94	64	104	68	90	55	87	58														
19.	81	50	88	61	94	52	99	68	99	45	88	53	93	44	83	59	101	61	107	74	103	61	106	72	90	63	88	54														
20.	82	46	95	55	93	60	100	71	87	46	89	49	91	46	93	58	100	62	110	81	105	64	106	64	89	56	92	62														
21.	84	40	90	54	91	56	98	70	82	48	87	50	87	45	86	50	97	54	108	78	103	62	107	64	91	62	92	60														
22.	80	38	93	62	92	56	101	70	87	40	88	47	88	39	89	55	100	55	108	83	102	65	102	71	89	56	90	58														
23.	73	35	86	61	88	55	97	72	88	49	85	47	85	31	88	52	96	53	106	84	101	68	108	68	90	60	86	60														
24.	80	31	93	52	85	54	97	62	90	47	87	40	90	29	89	56	97	46	108	71	103	54	101	72	91	62	82	57														
25.	84	36	98	57	89	56	100	59	89	44	89	42	92	31	82	59	101	47	105	81	102	59	99	73	90	52	80	55														
26.	80	40	93	60	91	54	96	65	88	49	90	49	92	38	85	51	99	56	103	82	103	68	101	73	88	55	79	50														
27.	80	45	90	66	87	58	94	61	85	50	83	49	87	50	81	56	91	61	109	80	103	69	107	77	88	57	78	55														
28.	82	53	84	64	83	55	86	67	85	48	80	53	76	51	85	52	90	58	97	77	93	60	110	67	84	50	80	53														
29.	80	46	84	57	84	52	88	65	74	45	81	48	79	53	90	56	85	56	101	74	97	61	101	70	86	52	79	54														
30.	80	41	89	53	78	58	88	66	78	52	81	40	80	40	86	51	90	55	98	79	93	64	101	66	93	54	73	54														
31.	83	40	89	57	78	54	84	62	80	50	79	42	84	42	89	52	93	54	98	73	91	63	97	66	92	53	80	51														
Mns.	79.2	39.7	89.2	53.5	86.7	51.9	93.0	64.7	84.2	41.8	83.5	44.3	84.5	38.7	83.5	52.1	95.1	51.5	101.3	73.3	98.2	60.4	101.1	65.2	89.3	55.8	84.1	54.9														

Arizona.

Date.	Bisbee.	Flagstaff.	Fort Apache.	Grand Canyon.	Parker.	Phoenix.	Prescott.	St. Michaels.	Sun City.	Tucson.	Yuma.	Laguna, Nev.
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1	89	63	82	36	94	46	112	62	104	68	88	46
2	94	66	83	40	95	51	111	62	107	69	89	46
3	94	67	80	48	95	51	115	67	105	77	87	54
4	93	69	76	45	93	55	110	62	104	75	87	56
5	91	67	81	48	94	57	112	60	106	75	87	59
6	94	69	85	42	97	56	117	65	111	74	93	55
7	95	69	89	43	98	56	109	66	111	77	95	54
8	93	69	87	47	95	55	109	66	108	77	94	58
9	95	69	89	49	94	56	114	67	107	77	91	61
10	86	66	81	45	92	58	116	67	105	73	91	57
11	89	62	86	46	94	57	118	67	108	76	93	58
12	89	66	87	45	95	58	114	66	109	73	95	61
13	86	63	77	58	97	59	110	67	95	81	85	64
14	78	62	64	56	93	60	96	67	91	72	72	61
15	81	62	75	48	94	69	102	68	99	77	81	60
16	82	62	81	52	91	57	104	67	105	69	88	56
17	86	62	83	50	91	60	104	67	102	72	90	56
18	87	62	84	50	93	58	111	67	109	74	91	56
19	89	66	86	53	91	64	116	66	107	82	94	64
20	90	65	91	53	95	57	117	66	111	79	97	57
21	90	67	89	55	93	67	113	67	103	84	95	57
22	90	62	83	61	96	63	107	67	100	78	80	60
23	77	61	80	56	85	60	101	67	91	73	76	62
24	79	61	75	57	87	59	107	67	96	79	83	60
25	82	61	78	54	90	58	104	68	100	78	84	57
26	84	64	80	55	88	59	106	66	100	80	83	61
27	79	65	76	50	85	57	106	68	101	79	83	57
28	79	59	74	52	85	58	107	66	99	74	81	59
29	81	64	77	54	85	55	106	68	102	74	85	61
30	82	65	75	50	84	61	111	70	103	78	83	57
31	85	65	78	50	90	56	110	72	104	75	86	54
Means..	86.7	64.5	80.8	49.9	90.9	57.4	109.5	66.4	103.3	75.8	87.4	57.6
	86.7	64.5	80.8	49.9	90.9	57.4	109.5	66.4	103.3	75.8	88.2	56.7
											104.0	67.7
											101.7	70.0
											106.2	75.9
											105.9	69.4